

## LISTING OF THE CLAIMS

Claims 1-5 (Canceled)

6.(New) In combination a coupling medium comprising

a thin layer of a homogenized mixture of at least one polysaccharide or disaccharide, a surface-active substance and water as a coupling medium for transverse ultrasonic waves

a surface of a transmitting, respectively receiving, transducer for transverse ultrasonic waves; and

a surface of a probe ,

wherein said thin layer of said mixture is applied between said surface of the probe and said surface of the transmitting respectively receiving transducer, so that the homogenized mixture is a coupling medium for transverse ultrasonic waves.

7.(New) The combination of claim 6, wherein said mixture is composed of a maximum of 50% water.

8.(New) The combination of claim 6, wherein said mixture is composed solely of biocompatible substances.

9.(New) A coupling medium for transverse ultrasonic waves, which comprises a homogenized mixture of either at least a polysaccharide or a disaccharide, a surface-active substance and water.

10.(New) A method of transmitting transverse ultrasonic waves between a surface of a transmitting, respectively receiving, transducer for transverse ultrasonic waves; and a surface of a probe , wherein said method comprises

providing a homogenized mixture of at least one polysaccharide or one disaccharide, a

surface-active substance and water as a coupling medium for transverse ultrasonic waves and applying said homogenized mixture to at least one of either said surface of a transmitting, respectively receiving, transducer for transverse ultrasonic waves or a surface of a probe; and pressing said probe and said transducer together.

11.(New)      The method combination of claim 10, wherein said mixture is composed of a maximum of 50% water.

12.(New)      The method of claim 10, wherein said mixture is composed solely of biocompatible substances.